

Title (en)

METHOD AND DEVICE FOR REGENERATING A PARTICULATE FILTER FOR EXHAUST LINE, AND ADAPTED PARTICULATE FILTER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REGENERIERUNG EINES PARTIKELFILTERS FÜR ABGASLEITUNGEN, UND GEEIGNETER PARTIKELFILTER

Title (fr)

PROCEDE ET DISPOSITIF DE REGENERATION D'UN FILTRE A PARTICULES POUR LIGNE D' ECHAPPEMENT, ET FILTRE A PARTICULES ADAPTE

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Application

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Abstract (en)

[origin: US2006153753A1] The invention relates to a method of regenerating an exhaust line particle filter wherein particles lining the walls of the filter are heated to a temperature higher than their combustion temperature, which method is characterized in that: the heat necessary to heat said particles is produced by adding to a solid first compound present in a reactor a gaseous second compound adapted to combine with said first compound to form a solid third compound by way of an exothermic reaction, and the heat resulting from the combustion of said particles is used to regenerate said solid first compound and said second compound by way of an endothermic reaction that is the opposite of said exothermic reaction. The invention also relates to an exhaust line and a particle filter for implementing the above method.

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